

09/506, 289

WEST

Generate Collection

Search Results - Record(s) 1 through 5 of 5 returned.☐ 1. Document ID: US 6040587 A

L15: Entry 1 of 5

File: USPT

Mar 21, 2000

US-PAT-NO: ~~6040587~~

DOCUMENT-IDENTIFIER: US 6040587 A

TITLE: Spin-polarized electron emitter having semiconductor opto-electronic layer with split valence band

DATE-ISSUED: March 21, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|----------|-------|----------|---------|
| Kishino; Katsumi | Yokohama | N/A | N/A | JPX |
| Kato; Toshihiro | Kasugai | N/A | N/A | JPX |

US-CL-CURRENT: 257/11; 257/248, 257/436

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 2. Document ID: US ~~6008502~~ A

L15: Entry 2 of 5

File: USPT

Dec 28, 1999

US-PAT-NO: 6008502

DOCUMENT-IDENTIFIER: US 6008502 A

TITLE: Diamond electron emitting device having an insulative electron supply layer

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-------|-------|----------|---------|
| Deguchi; Masahiro | Osaka | N/A | N/A | JPX |
| Hiraki; Akio | Kochi | N/A | N/A | JPX |
| Ito; Toshimichi | Osaka | N/A | N/A | JPX |
| Hatta; Akimitsu | Osaka | N/A | N/A | JPX |
| Eimori; Nobuhiro | Aichi | N/A | N/A | JPX |
| Kitabatake; Makoto | Nara | N/A | N/A | JPX |

US-CL-CURRENT: 257/10; 257/77

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 3. Document ID: US 5747862 A

L15: Entry 3 of 5

File: USPT

May 5, 1998

US-PAT-NO: 5747862

DOCUMENT-IDENTIFIER: US 5747862 A

TITLE: Spin-polarized electron emitter having semiconductor
opto-electronic layer with split valence band and reflecting
mirror

DATE-ISSUED: May 5, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|------------------------------------|-------|-------------|---------|
| Kishino; Katsumi | Susukino 2-chome, Midori-ku, | N/A | N/A | JPX |
| Kato; Toshihiro | Yokohama-shi, Kanagawa-ken | N/A | N/A | JPX |

Kasugai

US-CL-CURRENT: 257/436; 250/423P, 257/11, 313/113, 313/310

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 4. Document ID: US 5362972 A

L15: Entry 4 of 5

File: USPT

Nov 8, 1994

US-PAT-NO: 5362972

DOCUMENT-IDENTIFIER: US 5362972 A

TITLE: Semiconductor device using whiskers

DATE-ISSUED: November 8, 1994

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|---------------|-------|----------|---------|
| Yazawa; Masamitsu | Yokohama | N/A | N/A | JPX |
| Hiruma; Kenji | Tokorozawa | N/A | N/A | JPX |
| Katsuyama; Toshio | Ome | N/A | N/A | JPX |
| Futigami; Nobutaka | Mitaka | N/A | N/A | JPX |
| Matsumoto; Hidetoshi | Kodaira | N/A | N/A | JPX |
| Kakibayashi; Hiroshi | Nagareyama | N/A | N/A | JPX |
| Koguchi; Masanari | Higashikurume | N/A | N/A | JPX |
| Morgan; Gerard P. | Galway | N/A | N/A | IEX |
| Ogawa; Kensuke | Hachioji | N/A | N/A | JPX |

US-CL-CURRENT: 257/13; 257/14, 257/17, 257/20, 257/21, 257/22, 257/24, 257/27, 257/95

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 5. Document ID: US 4107724 A

L15: Entry 5 of 5

File: USPT

Aug 15, 1978

US-PAT-NO: 4107724

DOCUMENT-IDENTIFIER: US 4107724 A

TITLE: Surface controlled field effect solid state device

DATE-ISSUED: August 15, 1978

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|--------------|-------|----------|---------|
| Ralph; John Ernest | Crawley Down | N/A | N/A | GB2 |

US-CL-CURRENT: 257/43; 136/250, 257/184, 257/66

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

Generate Collection

| Terms | Documents |
|-------|-----------|
| 114 | 5 |

Documents, starting with Document:

Display Format:

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

| Terms | Documents |
|-----------|-----------|
| 13 and 14 | 1 |

Database:

US Patents Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Refine Search:

13 and 14

Clear**Search History****Today's Date: 11/4/2000**

| <u>DB Name</u> | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> |
|----------------|--------------------------|------------------|-----------------|
| USPT | 13 and 14 | 1 | <u>L5</u> |
| USPT | second near gap | 4842 | <u>L4</u> |
| USPT | voltage and 11 and 12 | 163 | <u>L3</u> |
| USPT | irradiate or irradiating | 36217 | <u>L2</u> |
| USPT | electron adj emitting | 2343 | <u>L1</u> |

WEST[Generate Collection](#)

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 4912738 A

L11: Entry 1 of 1

File: USPT

Mar 27, 1990

US-PAT-NO: 4912738

DOCUMENT-IDENTIFIER: US 4912738 A

TITLE: Magnetically energized pulser

DATE-ISSUED: March 27, 1990

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|------------|-------|----------|---------|
| Turchi; Peter J. | Alexandria | VA | N/A | N/A |

US-CL-CURRENT: 378/121; 313/157, 315/62, 378/136

| Full | Title | CIT.1 | REV.1 | CLS.1 | REF.1 | DRAW.1 |
|------|-------|-------|-------|-------|-------|--------|
| | | | | | | |

[Generate Collection](#)

| Terms | Documents |
|-------|-----------|
| 15 | 1 |

[Display](#)

10

Documents, starting with Document:

1

Display Format:[CIT](#)[Change Format](#)

WEST[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

| Terms | Documents |
|--------------------------|-----------|
| 17 and ((257/\$)!.CCLS.) | 7 |

Database:

US Patents Full-Text Database

JPO Abstracts Database

EPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

17 and ((257/\$)!.CCLS.)

[Refine Search:](#)[Clear](#)**Search History****Today's Date: 11/4/2000**

| <u>DB Name</u> | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> |
|----------------|--------------------------|------------------|-----------------|
| USPT | 17 and ((257/\$)!.CCLS.) | 7 | <u>L10</u> |
| USPT | 17 and ((427/\$)!.CCLS.) | 4 | <u>L9</u> |
| USPT | 17 and ((438/\$)!.CCLS.) | 0 | <u>L8</u> |
| USPT | l3 and gap | 66 | <u>L7</u> |
| USPT | l4 and gap | 4842 | <u>L6</u> |
| USPT | l3 and l4 | 1 | <u>L5</u> |
| USPT | second near gap | 4842 | <u>L4</u> |
| USPT | voltage and l1 and l2 | 163 | <u>L3</u> |
| USPT | irradiate or irradiating | 36217 | <u>L2</u> |
| USPT | electron adj emitting | 2343 | <u>L1</u> |

WEST[Generate Collection](#)**Search Results - Record(s) 1 through 4 of 4 returned.**☐ 1. Document ID: US 6106906 A

L12: Entry 1 of 4 File: USPT Aug 22, 2000

US-PAT-NO: 6106906

DOCUMENT-IDENTIFIER: US 6106906 A

TITLE: Material for forming electroconductive film, method of forming electroconductive film by using the same and method of manufacturing electron-emitting device, electron source and image-forming apparatus

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|-----------|-------|----------|---------|
| Matsuda; Hiroshi | Isehara | N/A | N/A | JPX |
| Fujiwara; Ryoji | Chigasaki | N/A | N/A | JPX |

US-CL-CURRENT: 427/558; 427/126.1, 427/385.5, 556/136, 556/138

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 2. Document ID: US 6068883 A

L12: Entry 2 of 4 File: USPT May 30, 2000

US-PAT-NO: 6068883

DOCUMENT-IDENTIFIER: US 6068883 A

TITLE: Process for forming diamond films by nucleation

DATE-ISSUED: May 30, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-------|-------|----------|---------|
| Deguchi; Masahiro | Osaka | N/A | N/A | JPX |
| Kitabatake; Makoto | Nara | N/A | N/A | JPX |
| Kurokawa; Hideo | Osaka | N/A | N/A | JPX |
| Shiratori; Tetsuya | Osaka | N/A | N/A | JPX |

US-CL-CURRENT: 427/249.12; 427/249.8, 427/535, 427/553, 427/560

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 3. Document ID: US 6063453 A

L12: Entry 3 of 4

File: USPT

May 16, 2000

US-PAT-NO: 6063453

DOCUMENT-IDENTIFIER: US 6063453 A

TITLE: Method of manufacturing electron-emitting device and
image-forming apparatus comprising such devices

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|----------|-------|----------|---------|
| Tomida; Yoshinori | Atsugi | N/A | N/A | JPX |
| Kawade; Hisaaki | Yokohama | N/A | N/A | JPX |
| Niibe; Masahito | Himeji | N/A | N/A | JPX |
| Ohnishi; Toshikazu | Machida | N/A | N/A | JPX |
| Okamura; Yoshimasa | Odawara | N/A | N/A | JPX |

US-CL-CURRENT: 427/532; 427/253, 427/255.19, 427/255.31,
427/545, 427/546, 427/586, 427/597, 427/78

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 4. Document ID: US 5716618 A

L12: Entry 4 of 4

File: USPT

Feb 10, 1998

US-PAT-NO: 5716618

DOCUMENT-IDENTIFIER: US 5716618 A

TITLE: Solution for fabrication of electron-emitting devices,
manufacture method of electron-emitting devices, and
manufacture method of image-forming apparatus

DATE-ISSUED: February 10, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|----------|-------|----------|---------|
| Tomida; Yoshinori | Atsugi | N/A | N/A | JPX |
| Hashimoto; Hiroyuki | Yokohama | N/A | N/A | JPX |

US-CL-CURRENT: 427/126.1; 427/126.5, 427/126.6, 556/136,
556/138, 556/49

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

Generate Collection

| Terms | Documents |
|--------------|------------------|
| 19 | 4 |

Display

10

Documents, starting with Document:

4

Display Format:

CIT

Change Format

WEST[Generate Collection](#)**Search Results - Record(s) 1 through 7 of 7 returned.**☐ 1. Document ID: US 6040587 A

L13: Entry 1 of 7

File: USPT

Mar 21, 2000

US-PAT-NO: 6040587

DOCUMENT-IDENTIFIER: US 6040587 A

TITLE: Spin-polarized electron emitter having semiconductor
opto-electronic layer with split valence band

DATE-ISSUED: March 21, 2000

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|------------------|----------|-------|----------|---------|
| Kishino; Katsumi | Yokohama | N/A | N/A | JPX |
| Kato; Toshihiro | Kasugai | N/A | N/A | JPX |

US-CL-CURRENT: 257/11; 257/248, 257/436

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|

☐ 2. Document ID: US 6008502 A

L13: Entry 2 of 7

File: USPT

Dec 28, 1999

US-PAT-NO: 6008502

DOCUMENT-IDENTIFIER: US 6008502 A

TITLE: Diamond electron emitting device having an insulative
electron supply layer

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-------|-------|----------|---------|
| Deguchi; Masahiro | Osaka | N/A | N/A | JPX |
| Hiraki; Akio | Kochi | N/A | N/A | JPX |
| Ito; Toshimichi | Osaka | N/A | N/A | JPX |
| Hatta; Akimitsu | Osaka | N/A | N/A | JPX |
| Eimori; Nobuhiro | Aichi | N/A | N/A | JPX |
| Kitabatake; Makoto | Nara | N/A | N/A | JPX |

US-CL-CURRENT: 257/10; 257/77

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 3. Document ID: US 5747862 A

L13: Entry 3 of 7

File: USPT

May 5, 1998

US-PAT-NO: 5747862

DOCUMENT-IDENTIFIER: US 5747862 A

TITLE: Spin-polarized electron emitter having semiconductor
opto-electronic layer with split valence band and reflecting
mirror

DATE-ISSUED: May 5, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|------------------------------------|-------|-------------|---------|
| Kishino; Katsumi | Susukino 2-chome, Midori-ku, | N/A | N/A | JPX |
| Kato; Toshihiro | Yokohama-shi, Kanagawa-ken | N/A | N/A | JPX |

Kasugai

US-CL-CURRENT: 257/436; 250/423P, 257/11, 313/113, 313/310

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 4. Document ID: US 5362972 A

L13: Entry 4 of 7

File: USPT

Nov 8, 1994

US-PAT-NO: 5362972

DOCUMENT-IDENTIFIER: US 5362972 A

TITLE: Semiconductor device using whiskers

DATE-ISSUED: November 8, 1994

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP | CODE | COUNTRY |
|----------------------|---------------|-------|-----|------|---------|
| Yazawa; Masamitsu | Yokohama | N/A | N/A | | JPX |
| Hiruma; Kenji | Tokorozawa | N/A | N/A | | JPX |
| Katsuyama; Toshio | Ome | N/A | N/A | | JPX |
| Futigami; Nobutaka | Mitaka | N/A | N/A | | JPX |
| Matsumoto; Hidetoshi | Kodaira | N/A | N/A | | JPX |
| Kakibayashi; Hiroshi | Nagareyama | N/A | N/A | | JPX |
| Koguchi; Masanari | Higashikurume | N/A | N/A | | JPX |
| Morgan; Gerard P. | Galway | N/A | N/A | | IEX |
| Ogawa; Kensuke | Hachioji | N/A | N/A | | JPX |

US-CL-CURRENT: 257/13; 257/14, 257/17, 257/20, 257/21, 257/22, 257/24, 257/27, 257/95

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 5. Document ID: US 5304815 A

L13: Entry 5 of 7

File: USPT

Apr 19, 1994

US-PAT-NO: 5304815

DOCUMENT-IDENTIFIER: US 5304815 A

TITLE: Electron emission elements

DATE-ISSUED: April 19, 1994

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP | CODE | COUNTRY |
|-------------------|----------|-------|-----|------|---------|
| Suzuki; Akira | Yokohama | N/A | N/A | | JPX |
| Tsukamoto; Takeo | Atsugi | N/A | N/A | | JPX |
| Shimizu; Akira | Inagi | N/A | N/A | | JPX |
| Sugata; Masao | Yokohama | N/A | N/A | | JPX |
| Shimoda; Isamu | Zama | N/A | N/A | | JPX |
| Okunuki; Masahiko | Tokyo | N/A | N/A | | JPX |

US-CL-CURRENT: 257/10; 250/214VT, 257/435, 257/462, 313/465, 313/501, 313/524, 349/33

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 6. Document ID: US 4906894 A

L13: Entry 6 of 7

File: USPT

Mar 6, 1990

US-PAT-NO: 4906894

DOCUMENT-IDENTIFIER: US 4906894 A

TITLE: Photoelectron beam converting device and method of driving the same

DATE-ISSUED: March 6, 1990

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|----------------------|------------|-------|----------|---------|
| Miyawaki; Mamoru | Tokyo | N/A | N/A | JPX |
| Masuda; Yukio | Atsugi | N/A | N/A | JPX |
| Arai; Ryuichi | Sagamihara | N/A | N/A | JPX |
| Mizusawa; Nobutoshi | Sagamihara | N/A | N/A | JPX |
| Ishiwatari; Takahiko | Yamato | N/A | N/A | JPX |
| Oda; Hitoshi | Yokohama | N/A | N/A | JPX |

US-CL-CURRENT: 313/542; 257/10, 257/461, 257/622, 313/366,
313/373, 313/380, 313/383, 313/384, 313/499, 313/501, 313/507 ,
313/523

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

☐ 7. Document ID: US 4107724 A

L13: Entry 7 of 7

File: USPT

Aug 15, 1978

US-PAT-NO: 4107724

DOCUMENT-IDENTIFIER: US 4107724 A

TITLE: Surface controlled field effect solid state device

DATE-ISSUED: August 15, 1978

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|--------------|-------|----------|---------|
| Ralph; John Ernest | Crawley Down | N/A | N/A | GB2 |

US-CL-CURRENT: 257/43; 136/250, 257/184, 257/66

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|------|-----------|-------|

[Generate Collection](#)